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DICTIONARY FILE UPDATES:   4 DEC 2007  HIGHEST RN 956696-50-7

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=>  d his

     (FILE 'HOME' ENTERED AT 15:40:23 ON 05 DEC 2007)

     FILE 'HCAPLUS' ENTERED AT 15:40:33 ON 05 DEC 2007
                E US20060127772/PN
L1            1 S E3
                SEL RN

     FILE 'REGISTRY' ENTERED AT 15:41:05 ON 05 DEC 2007
L2           13 S E1-13
L3          954 S (LI(L)P(L)S(L)O)/ELS
L4           31 S L3 AND 4/ELC.SUB
L5            9 S L2 AND L4
L6           14 S L4 AND 0.2-0.5/LI
L7           14 S L4 AND 0.2-0.45/LI
L8           16 S L4 AND 0.1-0.2/P
L9           16 S L4 AND 0.35-0.6/S
L10          15 S L4 AND 0.03-0.13/O
L11          13 S L7 AND L8
L12          12 S L11 AND L9
L13          11 S L12 AND L10
L14           8 S L2 AND L13
L15           1 S L5 NOT L14

     FILE 'HCAPLUS' ENTERED AT 15:49:59 ON 05 DEC 2007
L16           4 S L13
L17          11 S L4
L18           7 S L17 NOT L16


=> fil hcap
FILE 'HCAPLUS' ENTERED AT 15:52:48 ON 05 DEC 2007
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FILE COVERS 1907 - 5 Dec 2007 VOL 147 ISS 24
FILE LAST UPDATED: 4 Dec 2007 (20071204/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l16 ibib abs hitstr hitind 1-4

L16 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:1309160 HCAPLUS Full-text
TITLE: Method of producing solid electrolyte
INVENTOR(S): Ota, Nobuhiro
PATENT ASSIGNEE(S): Sumitomo Electric Industries, Ltd., USA
SOURCE: U.S. Pat. Appl. Publ., 10pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2007264579	A1	20071115	US 2007-798084	200705 10
JP 2007305552	A	20071122	JP 2006-135858	200605 15
CA 2587583	A1	20071115	CA 2007-2587583	200705 04
CN 101075500	A	20071121	CN 2007-10103948	200705 15
PRIORITY APPLN. INFO.:			JP 2006-135858 A	200605 15

AB A solid electrolyte and a method of manufacturing the same are provided. The solid electrolyte contains x atomic% of lithium, y atomic% of phosphorus, z atomic% of sulfur, and w atomic% of oxygen, in which the x, the y, the z, and the w satisfy the following expressions: (1) $20 \leq x \leq 45$, (2) $10 \leq y \leq 20$, (3)

35≤z≤60, (4) 1≤w≤10, and (5) x+y+z+w=100. Apexes of X-ray diffraction peaks in an X-ray diffraction pattern obtained by an X-ray diffraction method using a Kα-ray of Cu exist at diffraction angles 2θ of 16.7°±0.25°, 20.4°±0.25°, 23.8°±0.25°, 25.9°, 0.25°, 29.4°±0.25°, 30.4°±0.25°, 31.7°±0.25°, 33.5°±0.25°, 41.5°±0.25°, 43.7°±0.25°, and 51.2°±0.25°, resp., in the X-ray diffraction pattern, and a half-width of each of the X-ray diffraction peaks is not larger than 0.5°.

IT **956593-64-9P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(method of producing solid electrolyte)
RN 956593-64-9 HCAPLUS
CN INDEX NAME NOT YET ASSIGNED

Component	Ratio	Component Registry Number
O	0.09	17778-80-2
P	0.15	7723-14-0
S	0.45	7704-34-9
Li	0.31	7439-93-2

INCL -429
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 49
IT 340142-26-9P, Lithium phosphorus sulfur oxide **956593-64-9P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(method of producing solid electrolyte)

L16 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1357284 HCAPLUS Full-text
DOCUMENT NUMBER: 146:84751
TITLE: Method of fabrication of lithium secondary battery anode member
INVENTOR(S): Ota, Nobuhiro
PATENT ASSIGNEE(S): Sumitomo Electric Industries, Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 6pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006292449	A1	20061228	US 2006-476126	20060628
JP 2007012324	A	20070118	JP 2005-188945	20050628
CA 2548832	A1	20061228	CA 2006-2548832	20060529

KR 2007000983 A 20070103 KR 2006-52409 200606 12

EP 1739769 A1 20070103 EP 2006-253315 200606 26

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU

CN 1893150 A 20070110 CN 2006-10100008 200606 28

PRIORITY APPLN. INFO.: JP 2005-188945 A 200506 28

AB A lithium secondary battery anode member of the present invention includes a solid electrolyte film formed on a lithium metal film and is capable of suppressing reduction of the solid electrolyte film over a long period of time. In the lithium secondary battery anode member, the lithium metal film and the solid electrolyte film are laminated on a substrate, the solid electrolyte film contains the composition xLi.yP.zS.wO wherein x, y, z, and w satisfy the relations, $0.2 \leq x \leq 0.45$, $0.1 \leq y \leq 0.2$, $0.35 \leq z \leq 0.6$, and $0.03 \leq w \leq 0.13$, resp., $(x+y+z+w=1)$, and the main peaks of an X-ray diffraction pattern of the solid electrolyte film measured by a film method using Cu Kα radiation are at 2θ of about 11° and 30° and each have a half width of 10° or less.

IT **733049-25-7P**, Lithium phosphorus sulfur oxide (Li0.26P0.13S0.54O0.07) **917364-96-6P**, Lithium phosphorus sulfur oxide (Li0.26P0.13S0.57O0.04)
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(method of fabrication of lithium secondary battery anode member)

RN 733049-25-7 HCAPLUS
CN Lithium phosphorus sulfur oxide (Li0.26P0.13S0.54O0.07) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.07	17778-80-2
P	0.13	7723-14-0
S	0.54	7704-34-9
Li	0.26	7439-93-2

RN 917364-96-6 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.26O0.04P0.13S0.57) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.04	17778-80-2
P	0.13	7723-14-0
S	0.57	7704-34-9
Li	0.26	7439-93-2

INCL 429322000; 029623500
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

IT 340142-26-9P, Lithium phosphorus sulfur oxide **733049-25-7P**
, Lithium phosphorus sulfur oxide (Li0.26P0.13S0.54O0.07)
917364-96-6P, Lithium phosphorus sulfur oxide
(Li0.26P0.13S0.57O0.04)
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(method of fabrication of lithium secondary battery anode member)

L16 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1154867 HCAPLUS Full-text
DOCUMENT NUMBER: 143:424673
TITLE: Anode member for secondary lithium battery and its manufacture
INVENTOR(S): Ota, Nobuhiro; Okuda, Nobuyuki; Ueki, Hiroyuki
PATENT ASSIGNEE(S): Sumitomo Electric Industries Ltd., Japan
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005101549	A1	20051027	WO 2004-JP4800	200404 01
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2483599	A1	20051001	CA 2004-2483599	200404 01
CN 1739211	A	20060222	CN 2004-80000340	200404 01
EP 1732152	A1	20061213	EP 2004-725202	200404 01
US 2006127772	A1	20060615	US 2005-542311	200507 15
PRIORITY APPLN. INFO.:			WO 2004-JP4800 W	200404 01

AB The anode member has a Li metal film and an inorg. solid electrolyte film laminated on a substrate; where the solid electrolyte film contains Li, P, S, and O and is represented by Li·bP·cS·dO (a = 0.20-0.45; b = 0.10-0.20; c = 0.35-0.60; d = 0.03-0.13 and a+b+c+d = 1). The anode member is manufactured

by forming the Li metal film and the solid electrolyte film by a vapor phase method selected from deposition, ion plating, sputtering or laser applying method.

IT **733049-21-3**, Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.55) **733049-23-5**, Lithium phosphorus oxide sulfide (Li0.41P0.11O0.13S0.35) **733049-24-6**, Lithium oxide phosphide sulfide (Li0.26O0.09P0.13S0.52) **733049-25-7**, Lithium oxide phosphide sulfide (Li0.26O0.07P0.13S0.54) **733049-27-9**, Lithium phosphorus oxide sulfide (Li0.45P0.1O0.03S0.42) **733049-28-0**, Lithium oxide phosphide sulfide (Li0.23O0.03P0.14S0.6) **868384-25-2**, Lithium oxide phosphide sulfide (Li0.2-0.45O0.03-0.13P0.1-0.2S0.35-0.6) **868384-27-4**, Lithium phosphorus oxide sulfide (Li0.2P0.2O0.03S0.57)

RL: DEV (Device component use); USES (Uses)
(anode members containing lithium, phosphorus, sulfur and oxygen for secondary lithium batteries)

RN 733049-21-3 HCAPLUS

CN Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.55) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.04	17778-80-2
P	0.15	7723-14-0
S	0.55	7704-34-9
Li	0.26	7439-93-2

RN 733049-23-5 HCAPLUS

CN Lithium phosphorus oxide sulfide (Li0.41P0.11O0.13S0.35) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.13	17778-80-2
P	0.11	7723-14-0
S	0.35	7704-34-9
Li	0.41	7439-93-2

RN 733049-24-6 HCAPLUS

CN Lithium oxide phosphide sulfide (Li0.26O0.09P0.13S0.52) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.09	17778-80-2
P	0.13	7723-14-0
S	0.52	7704-34-9
Li	0.26	7439-93-2

RN 733049-25-7 HCAPLUS

CN Lithium phosphorus sulfur oxide (Li0.26P0.13S0.54O0.07) (CA INDEX NAME)

Component	Ratio	Component Registry Number

O	0.07	17778-80-2
P	0.13	7723-14-0
S	0.54	7704-34-9
Li	0.26	7439-93-2

RN 733049-27-9 HCAPLUS
CN Lithium phosphorus oxide sulfide (Li0.45P0.1O0.03S0.42) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.03	17778-80-2
P	0.1	7723-14-0
S	0.42	7704-34-9
Li	0.45	7439-93-2

RN 733049-28-0 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.23O0.03P0.14S0.6) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.03	17778-80-2
P	0.14	7723-14-0
S	0.6	7704-34-9
Li	0.23	7439-93-2

RN 868384-25-2 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.2-0.45O0.03-0.13P0.1-0.2S0.35-0.6) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.03 - 0.13	17778-80-2
P	0.1 - 0.2	7723-14-0
S	0.35 - 0.6	7704-34-9
Li	0.2 - 0.45	7439-93-2

RN 868384-27-4 HCAPLUS
CN Lithium phosphorus oxide sulfide (Li0.2P0.2O0.03S0.57) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.03	17778-80-2
P	0.2	7723-14-0
S	0.57	7704-34-9
Li	0.2	7439-93-2

IC ICM H01M004-48
ICS H01M004-02; H01M010-40
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
IT 7439-93-2, Lithium, uses 7440-50-8, Copper, uses 7440-57-5, Gold, uses 52627-24-4, Cobalt lithium oxide **733049-21-3**, Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.55) **733049-23-5**, Lithium phosphorus oxide sulfide

(Li0.41P0.11O0.13S0.35) **733049-24-6**, Lithium oxide phosphide sulfide (Li0.26O0.09P0.13S0.52) **733049-25-7**, Lithium oxide phosphide sulfide (Li0.26O0.07P0.13S0.54) **733049-27-9**, Lithium phosphorus oxide sulfide (Li0.45P0.1O0.03S0.42) **733049-28-0**, Lithium oxide phosphide sulfide (Li0.23O0.03P0.14S0.6) **868384-25-2**, Lithium oxide phosphide sulfide (Li0.2-0.45O0.03-0.13P0.1-0.2S0.35-0.6) 868384-26-3, Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.66) **868384-27-4**, Lithium phosphorus oxide sulfide (Li0.2P0.2O0.03S0.57)
RL: DEV (Device component use); USES (Uses)
(anode members containing lithium, phosphorus, sulfur and oxygen for secondary lithium batteries)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:632504 HCAPLUS Full-text
DOCUMENT NUMBER: 141:176838
TITLE: Secondary lithium battery anode component and its manufacture
INVENTOR(S): Ota, Yukihiro; Okuda, Nobuyuki; Ueki, Hiroyuki; Ihara, Hirohiko
PATENT ASSIGNEE(S): Sumitomo Electric Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004220906	A	20040805	JP 2003-6566	200301 15
JP 3716833	B2	20051116		
PRIORITY APPLN. INFO.:			JP 2003-6566	200301 15

AB The title component comprises a Li film and an inorg. solid electrolyte membrane laminated on a substrate; where the electrolyte membrane has a composition represented by LiaPbScOd (a = 0.2-0.45; b = 0.1-0.2; c = 0.35-0.6; and d = 0.03-0.13). The component is manufactured by forming the Li film and the inorg. solid electrolyte membrane by a gas phase method; where the gas phase method is a deposition method, an ion plating method, a sputtering method, or a laser application method.

IT **733049-21-3**, Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.55) **733049-22-4**, Lithium oxide phosphide sulfide (Li0.29O0.05P0.13S0.53) **733049-23-5**, Lithium phosphorus oxide sulfide (Li0.41P0.11O0.13S0.35) **733049-24-6**, Lithium oxide phosphide sulfide (Li0.26O0.09P0.13S0.52) **733049-25-7**, Lithium oxide phosphide sulfide (Li0.26O0.07P0.13S0.54) **733049-27-9**, Lithium phosphorus oxide sulfide (Li0.45P0.1O0.03S0.42) **733049-28-0**, Lithium oxide phosphide sulfide (Li0.23O0.03P0.14S0.6)

RL: DEV (Device component use); USES (Uses)
(manufacture and components of anodes. containing lithium phosphorus oxide sulfide in electrolyte membranes for secondary lithium batteries)

RN 733049-21-3 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.55) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.04	17778-80-2
P	0.15	7723-14-0
S	0.55	7704-34-9
Li	0.26	7439-93-2

RN 733049-22-4 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.29O0.05P0.13S0.53) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.05	17778-80-2
P	0.13	7723-14-0
S	0.53	7704-34-9
Li	0.29	7439-93-2

RN 733049-23-5 HCAPLUS
CN Lithium phosphorus oxide sulfide (Li0.41P0.11O0.13S0.35) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.13	17778-80-2
P	0.11	7723-14-0
S	0.35	7704-34-9
Li	0.41	7439-93-2

RN 733049-24-6 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.26O0.09P0.13S0.52) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.09	17778-80-2
P	0.13	7723-14-0
S	0.52	7704-34-9
Li	0.26	7439-93-2

RN 733049-25-7 HCAPLUS
CN Lithium phosphorus sulfur oxide (Li0.26P0.13S0.54O0.07) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.07	17778-80-2
P	0.13	7723-14-0

S	0.54	7704-34-9
Li	0.26	7439-93-2

RN 733049-27-9 HCAPLUS
CN Lithium phosphorus oxide sulfide (Li0.45P0.1O0.03S0.42) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.03	17778-80-2
P	0.1	7723-14-0
S	0.42	7704-34-9
Li	0.45	7439-93-2

RN 733049-28-0 HCAPLUS
CN Lithium oxide phosphide sulfide (Li0.23O0.03P0.14S0.6) (9CI) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	0.03	17778-80-2
P	0.14	7723-14-0
S	0.6	7704-34-9
Li	0.23	7439-93-2

IC ICM H01M004-02
ICS C01D015-00; H01M004-04; H01M004-40; H01M010-40
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
IT 7439-93-2, Lithium, uses 7440-50-8, Copper, uses **733049-21-3**, Lithium oxide phosphide sulfide (Li0.26O0.04P0.15S0.55) **733049-22-4**, Lithium oxide phosphide sulfide (Li0.29O0.05P0.13S0.53) **733049-23-5**, Lithium phosphorus oxide sulfide (Li0.41P0.11O0.13S0.35) **733049-24-6**, Lithium oxide phosphide sulfide (Li0.26O0.09P0.13S0.52) **733049-25-7**, Lithium oxide phosphide sulfide (Li0.26O0.07P0.13S0.54) 733049-26-8, Lithium oxide phosphide sulfide (Li0.2O0.03P0.02S0.57) **733049-27-9**, Lithium phosphorus oxide sulfide (Li0.45P0.1O0.03S0.42) **733049-28-0**, Lithium oxide phosphide sulfide (Li0.23O0.03P0.14S0.6)
RL: DEV (Device component use); USES (Uses)
(manufacture and components of anodes. containing lithium phosphorus oxide sulfide in electrolyte membranes for secondary lithium batteries)

=> d l18 ibib abs hitstr hitind 1-7

L18 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:559792 HCAPLUS Full-text
DOCUMENT NUMBER: 139:119910
TITLE: Manufacture of electrically conductive lithium thiophosphate and lithium phosphate thiophosphate both suitable for solid electrolytes
INVENTOR(S): Takada, Kazunori; Kondo, Shigeo; Sasaki, Takayoshi; Watanabe, Jun; Inada, Taro; Kajiyama, Akihisa; Sasaki, Hideki
PATENT ASSIGNEE(S): National Institute for Research In Inorganic

Materials, Japan; Toda Kogyo Corp.; Japan Storage Battery Co., Ltd.; Denki Kagaku Kogyo Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003206111	A	20030722	JP 2002-237	20020107
PRIORITY APPLN. INFO.:			JP 2002-237	20020107

AB Li3PS4 with elec. conductivity ≥(7 + 10-6) S/cm (at 25°) is manufactured by (1) heating raw material mixts. containing Li, P, and S at ≥500° in the absence of oxygen, and (2) quenching. Li3PS4 with elec. conductivity <(7 + 10-6) S/cm (at 25°) is heated at ≥500° in an inert atmospheric and then quenched to give Li3PS4-4xO4x (0.0 < x < 1.0). Alternatively, Li3PS4-4xO4x (0.0 < x < 1.0) is manufactured by (1) and cooling. These compds. show lithium ion conductivity and are suitable for lithium battery electrolytes.

IT **565227-64-7P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.05(PS4)0.95) **565227-65-8P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.1(PS4)0.9) **565227-66-9P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.2(PS4)0.8) **565227-67-0P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.25(PS4)0.75) **565227-68-1P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.3(PS4)0.7) **565227-69-2P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.4(PS4)0.6) **565227-70-5P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.5(PS4)0.5) **565227-71-6P**, Lithium phosphate phosphorotetrathioate (Li3[(PO4),(PS4)])
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of elec. conductive lithium thiophosphate and lithium phosphate thiophosphate by heating raw material mixts. and quenching or cooling)

RN 565227-64-7 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.05(PS4)0.95) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0.95	22383-48-8
O4P	0.05	14265-44-2
Li	3	7439-93-2

RN 565227-65-8 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.1(PS4)0.9) (CA INDEX NAME)

Component	Ratio	Component

		Registry Number
PS4	0.9	22383-48-8
O4P	0.1	14265-44-2
Li	3	7439-93-2

RN 565227-66-9 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.2(PS4)0.8) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0.8	22383-48-8
O4P	0.2	14265-44-2
Li	3	7439-93-2

RN 565227-67-0 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.25(PS4)0.75) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0.75	22383-48-8
O4P	0.25	14265-44-2
Li	3	7439-93-2

RN 565227-68-1 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.3(PS4)0.7) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0.7	22383-48-8
O4P	0.3	14265-44-2
Li	3	7439-93-2

RN 565227-69-2 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.4(PS4)0.6) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0.6	22383-48-8
O4P	0.4	14265-44-2
Li	3	7439-93-2

RN 565227-70-5 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3(PO4)0.5(PS4)0.5) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0.5	22383-48-8
O4P	0.5	14265-44-2
Li	3	7439-93-2

RN 565227-71-6 HCAPLUS
CN Lithium phosphate phosphorotetrathioate (Li3[(PO4),(PS4)]) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS4	0 - 1	22383-48-8
O4P	0 - 1	14265-44-2
Li	3	7439-93-2

IC ICM C01B025-30
ICS H01M010-40
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 76
IT 82857-67-8P **565227-64-7P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.05(PS4)0.95) **565227-65-8P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.1(PS4)0.9) **565227-66-9P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.2(PS4)0.8) **565227-67-0P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.25(PS4)0.75) **565227-68-1P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.3(PS4)0.7) **565227-69-2P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.4(PS4)0.6) **565227-70-5P**, Lithium phosphate phosphorotetrathioate (Li3(PO4)0.5(PS4)0.5) **565227-71-6P**, Lithium phosphate phosphorotetrathioate (Li3[(PO4),(PS4)])
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manufacture of elec. conductive lithium thiophosphate and lithium phosphate thiophosphate by heating raw material mixts. and quenching or cooling)

L18 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:486334 HCAPLUS Full-text
DOCUMENT NUMBER: 137:49676
TITLE: Method of forming thin film of inorganic solid electrolyte for use in lithium battery
INVENTOR(S): Kugai, Hirokazu; Ota, Nobuhiro
PATENT ASSIGNEE(S): Sumitomo Electric Industries, Ltd., Japan
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1217682	A2	20020626	EP 2001-310437	200112 13
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002184455	A	20020628	JP 2000-378474	200012 13
JP 3407733	B2	20030519		
US 2002106456	A1	20020808	US 2001-16357	

				200110 30
US 6641863	B2	20031104		
CA 2360719	A1	20020613	CA 2001-2360719	200110 31
TW 529194	B	20030421	TW 2001-90130195	200112 06
CN 1359165	A	20020717	CN 2001-143587	200112 13
PRIORITY APPLN. INFO.:			JP 2000-378474 A	200012 13

AB A method of producing a thin film of an inorg. solid electrolyte having a relatively high ionic conductance is provided. In the method, a thin film made of an inorg. solid electrolyte is formed, by a vapor deposition method, on a base member being heated. The thin film obtained through the heat treatment exhibits an ionic conductance higher than that of the thin film formed on the base member not being heated. The ionic conductance can also be increased through the steps of forming the thin film made of the inorg. solid electrolyte on the base member at room temperature or a temperature lower than 40° and then heating the thin film of the inorg. solid electrolyte.

IT **438491-29-3**
RL: DEV (Device component use); USES (Uses)
(method of forming thin film of inorg. solid electrolyte for use in lithium battery)

RN 438491-29-3 HCAPLUS

CN Lithium phosphate phosphenotrithioate sulfide (Li1.29(PO4)0.05(PS3)0.76S0.19) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.76	94287-53-3
O4P	0.05	14265-44-2
S	0.19	7704-34-9
Li	1.29	7439-93-2

IC ICM H01M010-36

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 57

IT 161286-52-8, Lithium sulfide thiosilicate (Li1.2S0.2(SiS3)0.4) 364387-50-8, Lithium silicate sulfide thiosilicate (Li1.34(SiO4)0.05S0.19(SiS3)0.38) 389116-89-6, Lithium sulfide thiosilicate (Li1.22S0.2(SiS3)0.4) 389116-91-0, Lithium borate sulfide thiosilicate (Li1.29(BO3)0.05S0.19(SiS3)0.38) 389116-93-2 389116-95-4, Germanium lithium sulfide (Ge0.4Li1.22S1.39) 389116-97-6, Gallium lithium sulfide (Ga0.79Li1.22S1.78) 389116-99-8, Lithium phosphenotrithioate sulfide (Li1.22(PS3)0.79S0.2) 389117-01-5, Lithium sulfide thiosilicate (Li1.12S0.1(SiS3)0.44) 438491-25-9, Lithium phosphate sulfide thiosilicate (Li1.19(PO4)0.05S0.19(SiS3)0.38) 438491-26-0 438491-27-1D, Lithium phosphate sulfide thiosilicate (Li1.29(PO4)0.04S0.19(SiS3)0.38), nitrided derivs. 438491-28-2, Lithium sulfide thiosilicate (Li1.32S0.3(SiS3)0.34)
438491-29-3
RL: DEV (Device component use); USES (Uses)

(method of forming thin film of inorg. solid electrolyte for use in lithium battery)

L18 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:379735 HCAPLUS Full-text
DOCUMENT NUMBER: 134:369435
TITLE: Secondary lithium batteries having inorganic solid electrolyte layers
INVENTOR(S): Ota, Yukihiro; Yamanaka, Shosaku
PATENT ASSIGNEE(S): Sumitomo Electric Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001143690	A	20010525	JP 1999-321909	199911 12
PRIORITY APPLN. INFO.:			JP 1999-321909	199911 12

AB The batteries have porous polymer foil separators, cathodes, and anodes using C as active mass, wherein the title layers are formed on (1) the anode surfaces or the anode-side surfaces of the separators or (2) the active mass C particle surfaces. The layers prevent Li metal dendrite generation on the anodes for short circuit prevention, and the batteries have high safety and charge-discharge cycle performance.

IT **340142-26-9P**, Lithium phosphorus sulfur oxide
340142-27-0P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(amorphous electrolyte layer; Li batteries having inorg. solid electrolyte layers for Li dendrite prevention on anodes)

RN 340142-26-9 HCAPLUS
CN Lithium phosphorus sulfur oxide (CA INDEX NAME)

Component	Ratio	Component Registry Number
O	x	17778-80-2
P	x	7723-14-0
S	x	7704-34-9
Li	x	7439-93-2

RN 340142-27-0 HCAPLUS
CN Lithium oxide phosphenotrithioate sulfide (Li0.340O.01(PS3)0.14S0.09) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.14	94287-53-3
O	0.01	17778-80-2
S	0.09	7704-34-9

Li	0.34	7439-93-2	

IC ICM H01M004-02
ICS H01M010-40
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
IT **340142-26-9P**, Lithium phosphorus sulfur oxide
340142-27-0P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(amorphous electrolyte layer; Li batteries having inorg. solid electrolyte layers for Li dendrite prevention on anodes)

L18 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:168855 HCAPLUS Full-text
DOCUMENT NUMBER: 120:168855
TITLE: Amorphous lithium ion-conducting solid electrolytes and their syntheses
INVENTOR(S): Kondo, Shigeo; Takada, Kazunori; Aotani, Noboru
PATENT ASSIGNEE(S): Matsushita Electric Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05306119	A	19931119	JP 1992-114522	19920507
JP 3343934	B2	20021111		

PRIORITY APPLN. INFO.: JP 1992-114522 19920507

AB The products are aLi3PO4·bLi2S·cX·dLiBr (a+b+c+d = 1; X = SiS2, GeS2, P2S5, and/or B2S3). The products are manufactured by synthesis of amorphous compds. a'Li3PO4·b'Li2S·c'X (a'+b'+c' = 1), mixing LiBr, heat melting, and rapid cooling. The electrolytes, useful for solid-state batteries, capacitors, electrochromic displays, etc., show excellent chemical stability.
IT **153600-42-1P 153600-43-2P**, Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)
RL: PREP (Preparation)
(preparation of amorphous, in manufacture of solid electrolytes)
RN 153600-42-1 HCAPLUS
CN Lithium phosphate phosphenotrithioate sulfide (Li1.39(PO4)0.03(PS3)0.64S0.33) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.64	94287-53-3
O4P	0.03	14265-44-2
S	0.33	7704-34-9
Li	1.39	7439-93-2

RN 153600-43-2 HCAPLUS
CN Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)

(CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.96	94287-53-3
O4P	0.04	14265-44-2
Li	1.08	7439-93-2

IC ICM C01D015-00
ICS C01B017-22; C01B025-30; H01B001-06; H01M006-18; H01M010-36
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 72, 76
IT 153600-40-9P, Lithium sulfur phosphate thiosilicate (Li1.25S0.19(PO4)0.03(SiS3)0.39) 153600-41-0P, Germanium lithium sulfur phosphate (Ge0.39Li1.25S1.36(PO4)0.03) **153600-42-1P** **153600-43-2P**, Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)
RL: PREP (Preparation)
(preparation of amorphous, in manufacture of solid electrolytes)

L18 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:168854 HCAPLUS Full-text
DOCUMENT NUMBER: 120:168854
TITLE: Amorphous lithium ion-conducting solid electrolytes and their manufacture
INVENTOR(S): Kondo, Shigeo; Takada, Kazunori; Aotani, Noboru
PATENT ASSIGNEE(S): Matsushita Electric Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05306118	A	19931119	JP 1992-114520	19920507
JP 3149524	B2	20010326		
PRIORITY APPLN. INFO.:			JP 1992-114520	19920507

AB The products are aLi3PO4·bLi2S·cX·dLiCl (a+b+c+d = 1; X is SiS2, GeS2, P2S5, and/or B2S3). The products are manufactured by synthesis of amorphous compds. a'Li3PO4·b'Li2S·c'X (a'+b'+c' = 1), mixing LiCl, heat melting, and rapid cooling. The electrolytes, useful for solid-state batteries, capacitors, electrochromic displays, etc., show excellent chemical stability.
IT **153600-42-1P** **153600-43-2P**, Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)
RL: PREP (Preparation)
(preparation of amorphous, in manufacture of solid electrolytes)
RN 153600-42-1 HCAPLUS
CN Lithium phosphate phosphenotrithioate sulfide (Li1.39(PO4)0.03(PS3)0.64S0.33) (CA INDEX NAME)

Component	Ratio	Component

		Registry Number
PS3	0.64	94287-53-3
O4P	0.03	14265-44-2
S	0.33	7704-34-9
Li	1.39	7439-93-2

RN 153600-43-2 HCAPLUS
CN Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.96	94287-53-3
O4P	0.04	14265-44-2
Li	1.08	7439-93-2

IC ICM C01D015-00
ICS H01B001-06; H01M006-18; H01M010-36
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 72, 76
IT 153600-40-9P, Lithium sulfur phosphate thiosilicate (Li1.25S0.19(PO4)0.03(SiS3)0.39) 153600-41-0P, Germanium lithium sulfur phosphate (Ge0.39Li1.25S1.36(PO4)0.03) **153600-42-1P** **153600-43-2P**, Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)
RL: PREP (Preparation)
(preparation of amorphous, in manufacture of solid electrolytes)

L18 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:168853 HCAPLUS Full-text
DOCUMENT NUMBER: 120:168853
TITLE: Amorphous lithium ion-conducting solid electrolytes and their syntheses
INVENTOR(S): Kondo, Shigeo; Takada, Kazunori; Aotani, Noboru
PATENT ASSIGNEE(S): Matsushita Electric Ind Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05306117	A	19931119	JP 1992-114519	19920507
JP 3151925	B2	20010403		

PRIORITY APPLN. INFO.: JP 1992-114519 19920507

AB The products are aLi3PO4·bLi2S·cX·dZ (a+b+c+d = 1; X = SiS2, GeS2, P2S5, and/or B2S3; Z is plural halogenated Li). The products are manufactured by synthesis of amorphous compds. a'Li3PO4·b'Li2S·c'X (a'+b'+c' = 1), mixing Z, heat melting, and rapid cooling. The electrolytes, useful for solid-state

batteries, capacitors, electrochromic displays, etc., show excellent chemical stability.

IT **153600-42-1P 153600-43-2P**, Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)
RL: PREP (Preparation)
(preparation of amorphous, in manufacture of solid electrolytes)

RN 153600-42-1 HCAPLUS
CN Lithium phosphate phosphenotrithioate sulfide (Li1.39(PO4)0.03(PS3)0.64S0.33) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.64	94287-53-3
O4P	0.03	14265-44-2
S	0.33	7704-34-9
Li	1.39	7439-93-2

RN 153600-43-2 HCAPLUS
CN Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96) (CA INDEX NAME)

Component	Ratio	Component Registry Number
PS3	0.96	94287-53-3
O4P	0.04	14265-44-2
Li	1.08	7439-93-2

IC ICM C01D015-00
ICS C01B017-22; C01B025-30; H01B001-06; H01M006-18; H01M010-36
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 72, 76
IT 153600-40-9P, Lithium sulfur phosphate thiosilicate (Li1.25S0.19(PO4)0.03(SiS3)0.39) 153600-41-0P, Germanium lithium sulfur phosphate (Ge0.39Li1.25S1.36(PO4)0.03) **153600-42-1P 153600-43-2P**, Lithium phosphate phosphenotrithioate (Li1.08(PO4)0.04(PS3)0.96)
RL: PREP (Preparation)
(preparation of amorphous, in manufacture of solid electrolytes)

L18 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:524557 HCAPLUS Full-text
DOCUMENT NUMBER: 113:124557
TITLE: Electrical conductivity and phase diagram of the system Li2SO4-Li3PO4
AUTHOR(S): Touboul, Marcel; Sephar, Nadine; Quarton, Michel
CORPORATE SOURCE: Lab. Cristallochim. Solide, Univ. Pierre et Marie Curie, Paris, 75252, Fr.
SOURCE: Solid State Ionics (1990), 38(3-4), 225-29
CODEN: SSIOD3; ISSN: 0167-2738
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The result of elec. conductivity measurements, x-ray powder diffraction and DTA on Li2SO4-Li3PO4 mixts. are presented and the phase diagram is determined A large region of solid solution Li2+xS1-xPxO4 ($0 < x \leq 0.7$) with α-Li2SO4 structure is found between 563 and 1121°. In this region, the elec. conductivity decreases slightly according to a "paddle-wheel" mechanism, and not to a "percolation" mechanism. At lower temps. a considerable increase of the elec. conductivity occurs for the (Li2SO4)0.7-(Li3PO4)0.3 mixture which

corresponds to a solid 2-phase region; this is due to the classical "dispersal" mechanism which occurs in composite ionic conductor although there is not an eutectic mixture in this system. No intermediate phase exists in this system.

IT **129268-35-5**, Lithium phosphate sulfate (Li2.5(PO4)0.5(SO4)0.5) **129268-92-4**, Lithium phosphate sulfate (Li1-2.5(PO4)0-0.5(SO4)0.5-1) **129268-93-5**, Lithium phosphate sulfate (Li2.3(PO4)0.3(SO4)0.7) **129268-94-6**, Lithium phosphate sulfate (Li2.2(PO4)0.2(SO4)0.8) **129268-95-7**, Lithium phosphate sulfate (Li2.1(PO4)0.1(SO4)0.9)
RL: PRP (Properties)
(elec. conductivity of)

RN 129268-35-5 HCAPLUS
CN Lithium phosphate sulfate (Li2.5(PO4)0.5(SO4)0.5) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O4S	0.5	14808-79-8
O4P	0.5	14265-44-2
Li	2.5	7439-93-2

RN 129268-92-4 HCAPLUS
CN Lithium phosphate sulfate (Li1-2.5(PO4)0-0.5(SO4)0.5-1) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O4S	0.5 - 1	14808-79-8
O4P	0 - 0.5	14265-44-2
Li	1 - 2.5	7439-93-2

RN 129268-93-5 HCAPLUS
CN Lithium phosphate sulfate (Li2.3(PO4)0.3(SO4)0.7) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O4S	0.7	14808-79-8
O4P	0.3	14265-44-2
Li	2.3	7439-93-2

RN 129268-94-6 HCAPLUS
CN Lithium phosphate sulfate (Li2.2(PO4)0.2(SO4)0.8) (CA INDEX NAME)

Component	Ratio	Component Registry Number
O4S	0.8	14808-79-8
O4P	0.2	14265-44-2
Li	2.2	7439-93-2

RN 129268-95-7 HCAPLUS
CN Lithium phosphate sulfate (Li2.1(PO4)0.1(SO4)0.9) (CA INDEX NAME)

Component	Ratio	Component Registry Number

O4S	0.9	14808-79-8
O4P	0.1	14265-44-2
Li	2.1	7439-93-2

CC 76-1 (Electric Phenomena)
Section cross-reference(s): 68
IT **129268-35-5**, Lithium phosphate sulfate (Li2.5(PO4)0.5(SO4)0.5) **129268-92-4**, Lithium phosphate sulfate (Li1-2.5(PO4)0-0.5(SO4)0.5-1) **129268-93-5**, Lithium phosphate sulfate (Li2.3(PO4)0.3(SO4)0.7) **129268-94-6**, Lithium phosphate sulfate (Li2.2(PO4)0.2(SO4)0.8) **129268-95-7**, Lithium phosphate sulfate (Li2.1(PO4)0.1(SO4)0.9)
RL: PRP (Properties)
(elec. conductivity of)

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